**Unit Plan**

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| **Unit Author** |
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| **Unit Overview** |
| **Unit Title:**  *Are Germs My Friend?* |
| **Unit Summary:**   1. This study focuses on the introduction of basic healthy habits needed for good health and hygiene. 2. Students will develop an understanding of the importance of healthy habits and good hygiene through engagement in age appropriate hands on activities. Students will discuss and practice hand washing . |
| **Subject Area**:  *Science* |
| **Grade Level:**  *Pre Kindergarten* |
| **Approximate Time Needed:**  *1 week: 15 minutes Teacher Directed Time each day 60 minutes Student Initiated Center Related Activities* |
| **Unit Foundation** |
| **Targeted Content Standards and Benchmarks:**  -SCI-2 Pose questions that can be answered by using students’ own observations and scientific knowledge (PK-CS-I1) (SI-E-A1)  -SCI-4 Select and use developmentally appropriate equipment and tools and units of measurement to observe and collect data (PKCS-  I4) (SI-E-A4)  -SCI-6 Use a variety of appropriate formats to describe procedures and to express ideas about demonstrations or experiments (e.g.,  drawings, journals, reports, presentations, exhibitions, portfolios) (PK-CS-I5) (SI-E-A6)   1. This study focuses on the introduction of basic healthy habits needed for good health and hygiene. 2. Students will develop an understanding of the importance of healthy habits and good hygiene through engagement in age appropriate hands on activities. Students will discuss and practice hand washing. |
| **Student Objectives/Learning Outcomes: TLW**   1. *Identify healthy habits* 2. *Demonstrate proper hand washing techniques* 3. *View video* |
| **Curriculum-Framing Questions**   * **Essential Question**:   “Who Am I?”   * **Unit Questions:**  1. Am I Healthy? 2. Can students identify healthy habits? 3. **Content Questions** What are the correct hand washing procedures? 4. What are germs? |
| **Assessment Plan** |
| **Assessment Timeline**   |  |  |  | | --- | --- | --- | | **Before project work begins** | **Students work on Projects and complete tasks** | **After Project work is completed** | | *Question*  *KWL Chart*  *Brainstorm* | *Pictures of student activities*  *Video of student activities*  *Germ Journal*  *Picture Graph by Students*  *Result Chart*  *Teacher Observation* | *Pictured antidotal record*  *Student Germ Journals*  *Center checklist*  *Video*  *Picture Graph*  *Multimedia Presentation of Unit events*  *Student Art Work*  *Rubric for Journal* | |
| **Assessment Summary:**   |  |  |  | | --- | --- | --- | |  | **Process and Purpose of Assessment** | **Phase of Unit** | | KWL Chart | * Chart relating to germs | Before  During  After | | Picture Sequence Chart | * Create picture sequence cards of order for hand washing | Before  During  After | | T Chart | * Respond to video information | Before  During  After | | Scoring  Guide | * Create student scoring guide to show how students preformed during the experiment process | Before  During  After | | Checklist | * Create a checklist of steps for hand washing * Checklist for steps for completing the experiment | Before  During  After | | Questioning | * Self evaluation-students will complete after attempting experiment in Discovery Center | Before  During  After | | Rubric | * Develop rubric for unit completion |  |  1. *Pictures of students with antidotal record of progress during unit placed in Student Portfolio* 2. *Student journals-completed with drawings of discoveries made* 3. *Checklist of Center Areas and Activities completed by students* 4. *Video evidence of students participating in the various activities* 5. *Picture Graph showing student discoveries about the experiments* 6. *Combine photos and videos into multimedia presentation* 7. *Student “Germ” pictures* |
| **Unit Details** |
| **Prerequisite Skills:**   1. *Students should be able to identify basic body parts* 2. *Students should have basic hand washing skills* |
| **Instructional Procedures:** (digital camera and video camera will be used each day to record students participation and discovery.)  ***Day 1-Unit Introduction-Video***   1. *Question: Ask students” What are germs?”* 2. *Create a KWL chart about germs* 3. *Journal: “What does a germ look like?”* 4. *Students will draw a picture of what a germ looks like* 5. *View: Sid The Science Kid-Feeling Good Inside and Out*   *Episode: The Big Sneeze*  ***Day2-***   1. *Review KWL chart and make additions* 2. *View video clip of “Clean It Up” (germ song) www.pbs.org/sid* 3. *Participate in Germ/Hand washing experiment-dirt* 4. *Journal: What did I Do?* 5. *Students will draw a picture of their hands with dirt* 6. *Students will draw a picture of washing their hands* 7. *How long did it take to clean your hands? (draw a line to represent the length of time)* 8. *Introduce “Germ Centers” experiment in centers*   ***Day 3-***   1. *Review KWL chart make changes or additions* 2. *Participate in Germ/Hand washing experiment-glitter* 3. *Journal: What did I Do?* 4. *Students will draw a picture of their hands with glitter* 5. *Students will draw a picture of washing their hands* 6. *How long did it take to clean your hands? (draw a line to represent the length of time)* 7. *Chart-“Which is easier to clean?” (dirt/glitter)*   ***Day 4-***   1. *View Video: View video clip of “Clean It Up” (germ song)* [*www.pbs.org/sid*](http://www.pbs.org/sid) 2. *Participate in Germ/Hand washing experiment-washable paint www.microbeworld.org* 3. *Create a Hand cleanliness guide-include as Journal entry for the day* 4. *Fold paper into fourths* 5. *Trace a hand in each of the boxes* 6. *Label each box with: Completely dirty, Very Dirty, Dirty, Clean* 7. *Have students color in the hand in each box to represent the box title*   ***Day5-***  *1****.****Discuss experiments completed this week*  *2. Participate in potato experiment-www.preschoolbystormie.com/healthyhabits.htm*  *3. Illustrate journal page 5*   1. *Draw a picture of clean hand bag and dirty hand bag* 2. *Draw picture of potato in dirty hand bag and draw a picture of potato in the clean hand bag* 3. *Observe bags over the next 2 weeks* 4. *Question students about observations-use questions from website* |
| **Accommodations for Differentiated Instruction:**   1. Video of students acting out steps for washing hands as they tell the steps |
| **Special Needs Students:**  *Special Needs Students will have activities provided within the unit that meets their needs as defined by the IEP developed by the Special Populations Department.* |
| **Nonnative Speakers:**   1. *Materials will be provided in native language when necessary.* 2. *ESLA representatives will be present in the classroom when needed to assist the student during the unit.* |
| **Gifted/Talented Students:**  *Units are provided with differentiated learning activities that will accommodate the different learning styles within the classroom for each unit.* |
| **Materials and Resources Required for the Unit** |
| **Technology Hardware** (*Place an x next to all equipment needed)*   |  |  |  | | --- | --- | --- | | \_\_Camera  \_X\_Computer(s)  \_X\_ Digital Camera  \_X\_DVD Player  \_X Internet Connection | \_\_ Laser Disk  \_X\_ Printer  \_X\_ Projection System  \_\_Scanner \_X Television | \_\_ VCR  \_X\_ Video Camera  \_\_ Video Conferencing Equipment  \_\_Other | |
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| **Technology Software:** *(Place an x next to all software needed)*   |  |  |  | | --- | --- | --- | | \_\_Database Spreadsheet  \_\_Desktop Publishing  \_\_E-mail Software  \_\_Encyclopedia on CD-Rom | \_X\_ Image Processing  \_X\_ Internet Web Browser  \_\_Multimedia | \_\_Web page Development  \_\_ Word Processing  \_\_Other | |
| **Printed Materials:**  *Germ Journal pages*  *Picture Graph*  *KWL charts* |
| **Supplies:**  *Video: Sid The Science Kid Feeling Good Inside and Out-The Big Sneeze*  *Video clip: Clean It Up (germ song)*  *MP3 player with headphones*  *Glitter*  *Paper Towels*  *Hand Lotion*  *Bucket*  *running water*  *dirt*  *hand washing soap*  *art materials*  *paper*  *glue* |
| **Internet Resources:**  [*http://pbskids.org/sid/*](http://pbskids.org/sid/)  [*http://www.preschoolbystormie.com/*](http://www.preschoolbystormie.com/)  [*http://www.atozteacherstuff.com/*](http://www.atozteacherstuff.com/)  [*http://www.microbeworld.org*](http://www.microbeworld.org)  *https://www.virtualpre-k.org/* |
| **Other Resources**:  *School Nurse* |